

## CLAIMS:

1. An echo canceller, characterised in that the echo canceller comprises a dedicated non stationary echo canceller.

2. The echo canceller according to claim 1, characterised in that the non stationary echo canceller comprises a stationary echo estimator and/or a non stationary echo estimator.

3. The echo canceller according to claim 2, characterised in that the stationary echo estimator is a stationary noise estimator.

4. The echo canceller according to claim 3, characterised in that the stationary noise estimator is based on minimum statistics.

5. The echo canceller according to one of the claims 1-4, characterised in that the echo canceller comprises an adaptive filter and a residual echo processor coupled to the adaptive filter, which residual echo processor is equipped with the non stationary echo canceller.

6. The echo canceller according to one of the claims 1-5, characterised in that the echo canceller comprises comfort noise inserting means.

7. A communication device, such as for example a speakerphone or teleconferencing device, a telephone device, in particular a mobile telephone, a hands-free telephone or the like, characterised in that the communication device comprises one or more echo cancellers according to one of the claims 1-6.

8. A method for cancelling echoes in a communication network comprising one or more communication devices according to claim 7, characterised in that non stationary echoes are being cancelled by post processing.

9. Signals suitable for use in the method according to claim 8, characterised in that the signals allow only non stationary echoes to be cancelled.